

Andrew B Schwartz

List of Publications by Year in Descending Order

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Version: 2024-04-24

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

8,466
citations

33
h-index

55
g-index

55
ext. papers

9,755
ext. citations

10.4
avg, IF

6.18
L-index

#	Paper	IF	Citations
55	Viral-Mediated Optogenetic Stimulation of Peripheral Motor Nerves in Non-human Primates. <i>Frontiers in Neuroscience</i> , 2019 , 13, 759	5.1	8
54	Stiffness as a control factor for object manipulation. <i>Journal of Neurophysiology</i> , 2019 , 122, 707-720	3.2	1
53	Distributed processing of movement signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 ,	11.5	3
52	Activity in Primary Motor Cortex Related to Visual Feedback. <i>Cell Reports</i> , 2019 , 29, 3872-3884.e4	10.6	3
51	Intracortical recording stability in human brain-computer interface users. <i>Journal of Neural Engineering</i> , 2018 , 15, 046016	5	53
50	Progress towards restoring upper limb movement and sensation through intracortical brain-computer interfaces. <i>Current Opinion in Biomedical Engineering</i> , 2018 , 8, 84-92	4.4	15
49	Decoding arm speed during reaching. <i>Nature Communications</i> , 2018 , 9, 5243	17.4	13
48	Autonomy infused teleoperation with application to brain computer interface controlled manipulation. <i>Autonomous Robots</i> , 2017 , 41, 1401-1422	3	40
47	Biomechanics and neural control of movement, 20 years later: what have we learned and what has changed?. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017 , 14, 91	5.3	10
46	Intracortical microstimulation of human somatosensory cortex. <i>Science Translational Medicine</i> , 2016 , 8, 361ra141	17.5	361
45	Idle state classification using spiking activity and local field potentials in a brain computer interface. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 1572-1575	0.9	3
44	Blending of brain-machine interface and vision-guided autonomous robotics improves neuroprosthetic arm performance during grasping. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016 , 13, 28	5.3	57
43	Movement: How the Brain Communicates with the World. <i>Cell</i> , 2016 , 164, 1122-1135	56.2	58
42	Beyond synergies: Comment on "Hand synergies: Integration of robotics and neuroscience for understanding the control of biological and artificial hands" by Marco Santello et al. <i>Physics of Life Reviews</i> , 2016 , 17, 50-3	2.1	1
41	A MULTIVARIATE GAUSSIAN PROCESS FACTOR MODEL FOR HAND SHAPE DURING REACH-TO-GRASP MOVEMENTS. <i>Statistica Sinica</i> , 2015 , 25, 5-24	0.7	3
40	Motor cortical correlates of arm resting in the context of a reaching task and implications for prosthetic control. <i>Journal of Neuroscience</i> , 2014 , 34, 6011-22	6.6	42
39	Collaborative approach in the development of high-performance brain-computer interfaces for a neuroprosthetic arm: translation from animal models to human control. <i>Clinical and Translational Science</i> , 2014 , 7, 52-9	4.9	39

38	Motor cortical control of movement speed with implications for brain-machine interface control. <i>Journal of Neurophysiology</i> , 2014 , 112, 411-29	3.2	40
37	Automatic scan test for detection of functional connectivity between cortex and muscles. <i>Journal of Neurophysiology</i> , 2014 , 112, 490-9	3.2	1
36	Neuroprosthetic control and tetraplegia--authorsWeply. <i>Lancet, The</i> , 2013 , 381, 1900-1	4.0	9
35	Structural analysis of explanted microelectrode arrays 2013 ,		16
34	High-performance neuroprosthetic control by an individual with tetraplegia. <i>Lancet, The</i> , 2013 , 381, 557-64	4.4	1146
33	Progress toward a high-performance neural prosthetic 2013 ,		1
32	An electrocorticographic brain interface in an individual with tetraplegia. <i>PLoS ONE</i> , 2013 , 8, e55344	3.7	263
31	Recording from the same neurons chronically in motor cortex. <i>Journal of Neurophysiology</i> , 2012 , 107, 1970-8	3.2	90
30	Behavioral and neural correlates of visuomotor adaptation observed through a brain-computer interface in primary motor cortex. <i>Journal of Neurophysiology</i> , 2012 , 108, 624-44	3.2	90
29	Bayesian learning in assisted brain-computer interface tasks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 2740-3	0.9	4
28	Inference from populations: going beyond models. <i>Progress in Brain Research</i> , 2011 , 192, 103-12	2.9	14
27	Latent inputs improve estimates of neural encoding in motor cortex. <i>Journal of Neuroscience</i> , 2010 , 30, 13873-82	6.6	25
26	A reward-modulated hebbian learning rule can explain experimentally observed network reorganization in a brain control task. <i>Journal of Neuroscience</i> , 2010 , 30, 8400-10	6.6	82
25	Neural interface technology for rehabilitation: exploiting and promoting neuroplasticity. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2010 , 21, 157-78	2.3	139
24	Comparison of brain-computer interface decoding algorithms in open-loop and closed-loop control. <i>Journal of Computational Neuroscience</i> , 2010 , 29, 73-87	1.4	110
23	Bias, optimal linear estimation, and the differences between open-loop simulation and closed-loop performance of spiking-based brain-computer interface algorithms. <i>Neural Networks</i> , 2009 , 22, 1203-13	9.1	98
22	Control of a brain-computer interface without spike sorting. <i>Journal of Neural Engineering</i> , 2009 , 6, 055094	4.4	121
21	Functional network reorganization in motor cortex can be explained by reward-modulated Hebbian learning. <i>Advances in Neural Information Processing Systems</i> , 2009 , 2009, 1105-1113	2.2	2

20	Cortical control of a prosthetic arm for self-feeding. <i>Nature</i> , 2008 , 453, 1098-101	50.4	1203
19	Functional network reorganization during learning in a brain-computer interface paradigm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 19486-91	11.5	212
18	Population vector code: a geometric universal as actuator. <i>Biological Cybernetics</i> , 2008 , 98, 509-18	2.8	26
17	Useful signals from motor cortex. <i>Journal of Physiology</i> , 2007 , 579, 581-601	3.9	39
16	Brain-controlled interfaces: movement restoration with neural prosthetics. <i>Neuron</i> , 2006 , 52, 205-20	13.9	569
15	Differential representation of perception and action in the frontal cortex. <i>Science</i> , 2004 , 303, 380-3	33.3	107
14	Cortical neural prosthetics. <i>Annual Review of Neuroscience</i> , 2004 , 27, 487-507	17	445
13	Information conveyed through brain-control: cursor versus robot. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2003 , 11, 195-9	4.8	117
12	Direct cortical control of 3D neuroprosthetic devices. <i>Science</i> , 2002 , 296, 1829-32	33.3	1338
11	Extraction algorithms for cortical control of arm prosthetics. <i>Current Opinion in Neurobiology</i> , 2001 , 11, 701-7	7.6	108
10	On the relationship between joint angular velocity and motor cortical discharge during reaching. <i>Journal of Neurophysiology</i> , 2001 , 85, 2576-89	3.2	108
9	Arm trajectory and representation of movement processing in motor cortical activity. <i>European Journal of Neuroscience</i> , 2000 , 12, 1851-6	3.5	56
8	One motor cortex, two different views. <i>Nature Neuroscience</i> , 2000 , 3, 963; author reply 963-5	25.5	20
7	Motor cortical activity during drawing movements: population representation during spiral tracing. <i>Journal of Neurophysiology</i> , 1999 , 82, 2693-704	3.2	141
6	Motor cortical representation of speed and direction during reaching. <i>Journal of Neurophysiology</i> , 1999 , 82, 2676-92	3.2	588
5	Motor cortical activity during drawing movements: population representation during lemniscate tracing. <i>Journal of Neurophysiology</i> , 1999 , 82, 2705-18	3.2	116
4	Cortical control for prosthetic devices 1996 ,		3
3	Direct cortical representation of drawing. <i>Science</i> , 1994 , 265, 540-2	33.3	249

2 Distributed motor processing in cerebral cortex. *Current Opinion in Neurobiology*, **1994**, 4, 840-6 7.6 57

1 Viral-mediated optogenetic stimulation of peripheral motor nerves in non-human primates 3